AMENDMENTS TO THE CLAIMS

- 1. (CURRENTLY AMENDED) An apparatus comprising:
- a circuit configured to be tested; and

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- a plurality of test blocks within said circuit each comprising (i) a plurality of sequential elements and (ii) a plurality of logic elements, wherein (i) each of said test blocks are configured to operate (a) in a first mode comprising a shift mode and (b) a second mode comprising a capture mode, (ii) said shift mode operates with multiple scan clocks that are clocked toggled simultaneously, and (iii) said capture mode operates with multiple scan clocks being toggled at a time.
- 2. (ORIGINAL) The apparatus according to claim 1, wherein said shift mode and said capture mode comprise portions of static timing analysis.
- 3. (CURRENTLY AMENDED) The apparatus according to claim 1, wherein one of said test blocks includes a <u>lock-up</u> latch <u>positioned</u> at an end of said plurality of sequential elements.
- 4. (CURRENTLY AMENDED) The apparatus according to claim

 1, wherein said shift mode comprises simultaneously toggling

pulsing all of said scan clocks and said capture mode comprises pulsing one of said scan clocks at a time.

- 5. (CURRENTLY AMENDED) The apparatus according to claim 1, wherein said capture mode comprises pulsing clocking one of said scan clocks at a time and said scan mode comprises simultaneously clocking all of said scan clocks.
- 6. (ORIGINAL) The apparatus according to claim 1, wherein each of said sequential elements comprises a flip-flop.
- 7. (ORIGINAL) The apparatus according to claim 1, wherein said apparatus fixes timing violations in response to said shift mode and said capture mode.
- 8. (ORIGINAL) The apparatus according to claim 1, wherein said apparatus executes (i) a first test run in said shift mode and (ii) a second and third test run in said capture mode.
- 9. (ORIGINAL) The apparatus according to claim 8, wherein said apparatus inserts one or more false path statements between each of said test runs.

- 10. (CURRENTLY AMENDED) A method for performing static timing analysis comprising the steps of:
- (A) implementing a plurality of test blocks each comprising (i) a plurality of test elements and (ii) a plurality of logic elements; and
- (B) operating in (i) a capture mode using multiple scan clocks with only one of the scan clocks being toggled at a time; and (ii) a shift mode using multiple scan clocks being toggled at a time simultaneously.
- 11. (ORIGINAL) The method according to claim 10, wherein step (B) comprises:

executing a first test run in said shift mode; and executing a second and a third test run in said capture mode.

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12. (CURRENTLY AMENDED) The method according to claim
11, further comprising the step of:

fixing timing violation errors in response to <u>executing</u> said <u>first</u> test run, <u>said second test run and said third test run.</u>

13. (ORIGINAL) The method according to claim 11, further comprising the step of:

inserting one or more false path statements between each of said execution steps.

14. (ORIGINAL) An apparatus for performing static timing analysis comprising the steps of:

means for implementing a plurality of test blocks each comprising (i) a plurality of test elements and (ii) a plurality of logic elements; and

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means for operating in a capture mode using multiple scan clocks with only one of the scan clocks being toggled at a time; and

means for operating in a shift mode using multiple scan clocks being toggled at a time.

- 15. (NEW) The apparatus according to claim 3, wherein said lock-up latch is configured to prevent timing violations when said one of said test blocks operates in said shift mode.
- 16. (NEW) The apparatus according to the claim 1, wherein a static timing analysis is performed while in said capture mode to perform a setup timing check.

- 17. (NEW) The apparatus according to claim 1, wherein one or more false path statements are inserted into said apparatus when said apparatus is in said capture mode.
- 18. (NEW) The apparatus according to claim 17, wherein said one or more false path statements instruct a static timing analysis tool to ignore timing arcs between two or more of said multiple scan clocks.
- 19. (NEW) The apparatus according to claim 1, wherein one of said test blocks includes a lock-up latch configured to prevent timing violations when said one of said test blocks operates in said shift mode.
- 20. (NEW) The method according to claim 10, further comprising the step of:

performing a static timing analysis while in said capture mode to perform a setup timing check.